

CLAIMS:

1. A method of handling frames in a network device, said method comprising the steps of:

receiving a frame at a network device of an assembly of network devices, with the assembly of devices divided into a first side and a second side and the network
5 device being on the first side;

examining the received frame to determine whether the frame is destined for a member of a specific trunking group;

determining whether a destination device identifier for the frame corresponds to one of the network devices on the second side; and

10 forwarding the frame to a destination port based on being a member of the specific trunk group and the destination device identifier.

2. A method as recited in claim 1, wherein the step of examining the received frame comprises examining the received frame to determine whether the frame is destined for the member of the specific trunking group of ports providing connections over a high speed data port interface.

3. A method as recited in claim 1, wherein the step of examining the received frame comprises performing a lookup in a trunking group table.

4. A method as recited in claim 1, wherein the step of determining comprises examining the destination device identifier contained in a header of the frame.

5. A method as recited in claim 1, wherein the step of forwarding the frame

comprises forwarding the frame over an interconnected Gigabit port of the network device when the destination port is the member of the specific trunk group and the destination device identifier indicates one of the network devices on the second side.

6. A network device for handling frames, comprising:

receiving means for receiving a frame by a network device of an assembly of network devices, with the assembly of devices divided into a first side and a second side and the network device being on the first side;

5 examining means for examining the received frame to determine whether the frame is destined for a member of a specific trunking group;

determining means for determining whether a destination device identifier for the frame corresponds to one of the network devices on the second side; and

10 forwarding means for forwarding the frame to a destination port based on whether the destination port is the member of the specific trunk group and the destination device identifier.

7. A method as recited in claim 6, wherein the examining means comprises means for examining the received frame to determine whether the frame is destined for the member of the specific trunking group of ports providing connections over a high speed data port interface.

8. A method as recited in claim 6, wherein the examining means comprises means for performing a lookup in a trunking group table.

9. A method as recited in claim 6, wherein the determining means comprises means for examining the destination device identifier contained in a header of the frame.

10. A method as recited in claim 6, wherein the forwarding means comprises means for forwarding the frame over an interconnected Gigabit port of the network device when the destination port is the member of the specific trunk group and the destination device identifier indicates one of the network devices on the second side.

11. A network device for handling frames, comprising:

a plurality of ports, configured to send and receive data frames, with at least one of said ports connected to other network devices of an assembly of network devices, with the assembly of devices divided into a first side and a second side and

5 the network device being on the first side; and

at least one port interface, for coordinating actions of said plurality of ports;

wherein the at least one port interface is configured to examine the received data frames to determine whether the data frames are destined for a member of a specific trunking group and whether a destination device identifier for the frame

10 corresponds to one of the network devices on the second side; and

wherein the at least one port interface is configured to forward the frame to a destination port based on whether the destination port is a member of the specific trunking group and the destination device identifier.

12. A method as recited in claim 11, wherein the at least one port interface is

configured to determine whether the frame is destined for the member of the specific trunking group of ports providing connections over a high speed data port interface.

13. A method as recited in claim 11, wherein the at least one port interface is configured to perform a lookup in a trunking group table.

14. A method as recited in claim 11, wherein the at least one port interface is configured to examine the destination device identifier contained in a header of the frame.

15. A method as recited in claim 11, wherein the at least one port interface is configured to forward the frame over an interconnected Gigabit port of the network device when the destination port is the member of the specific trunk group and the destination device identifier indicates one of the network devices on the second side.